

# Chapter 2 Practice Test

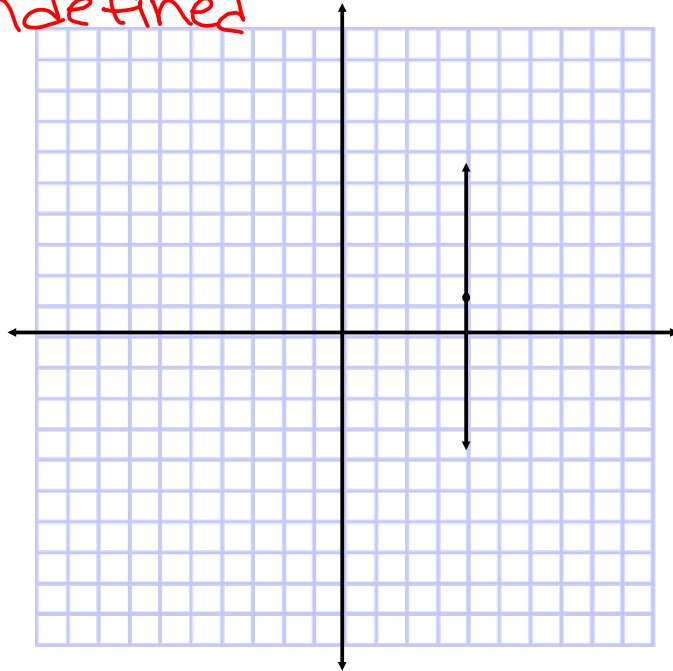
**Vocabulary Matching:**

- |  |   |
|--|---|
| <u>B</u> 1. Slope                      | A. A horizontal line.                     |
| <u>D</u> 2. Undefined Slope            | B. The rate of Change.                    |
| <u>A</u> 3. Zero Slope                 | C. Slope goes down left to right.         |
| <u>E</u> 4. System of Linear Equations | D. A vertical line.                       |
| <u>F</u> 5. Positive Slope             | E. A set of 2 (or more) linear equations. |
| <u>C</u> 6. Negative Slope             | F. Slope goes up from left to right.      |

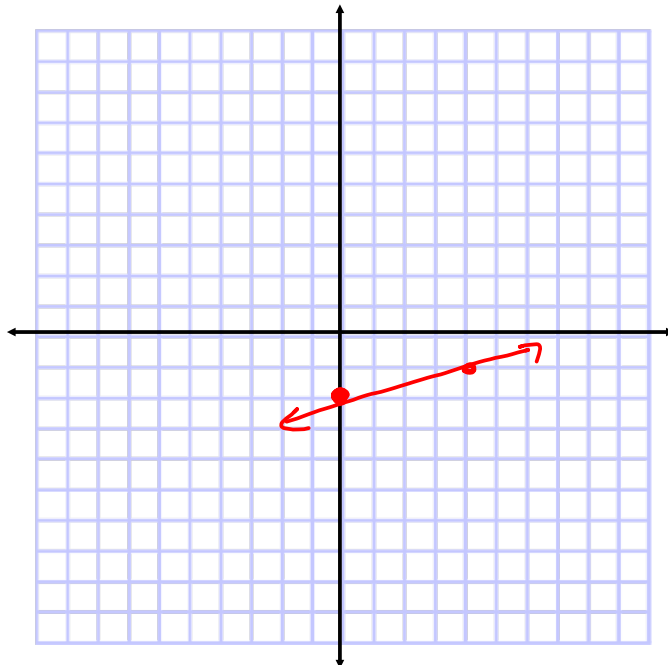
6.

undefined

$\frac{0}{0}$



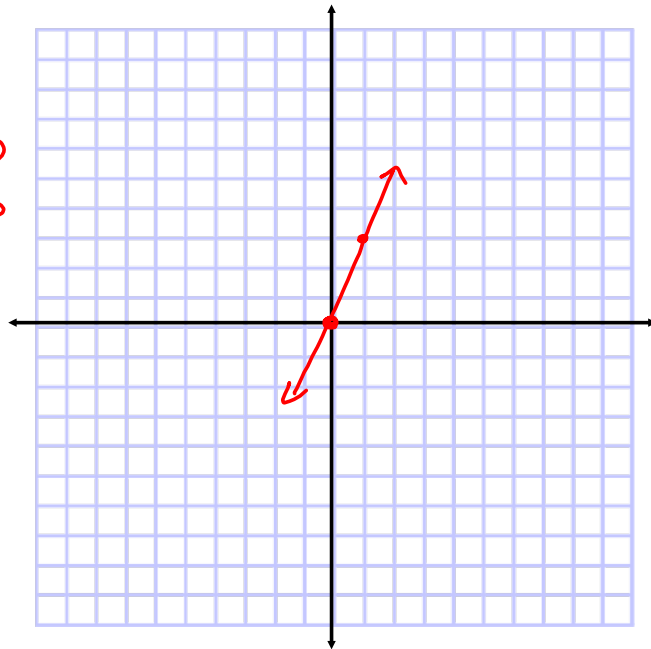
7.  $y = \frac{1}{4}x + -2$



8.  $y = 3x$

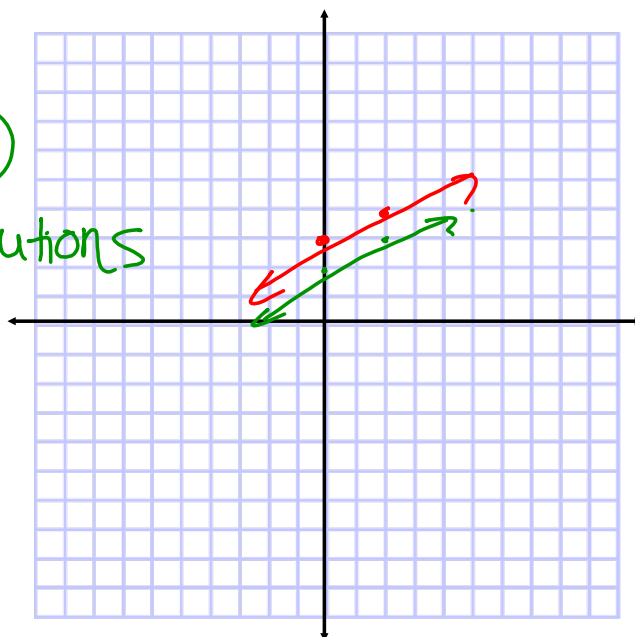
$y = \frac{3}{1}x + 0$

$$\begin{array}{r|l} x & y \\ \hline 0 & 0 \\ 1 & 3 \end{array}$$

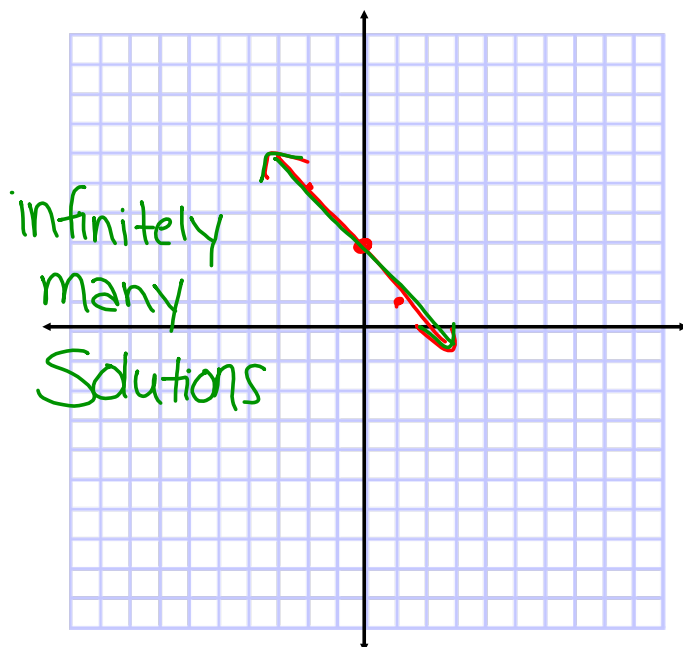


9.  $y = \frac{1}{2}x + 3$  •  
 $y = \frac{1}{2}x + 2$  •

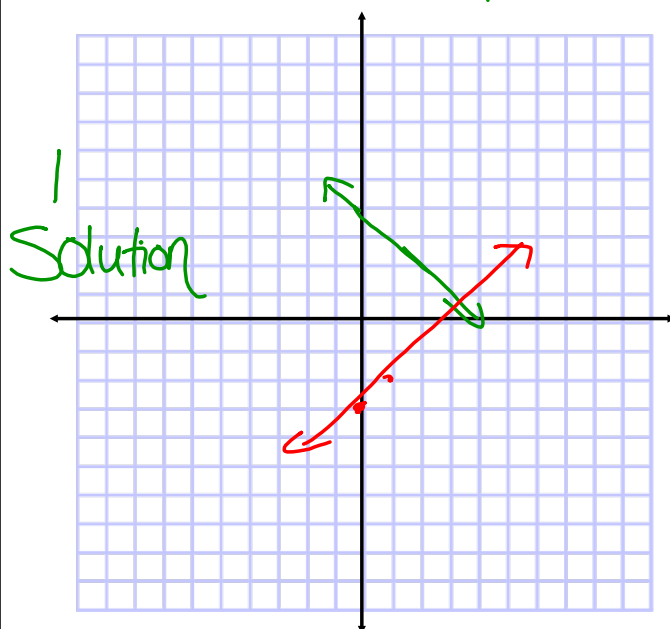
○  
 Solutions



10.  $\frac{2y = -4x + 6}{y = -2x + 3}$   $y = -\frac{2}{1}x + 3$



11.  $y = x + 3$   $y = \frac{1}{1}x + 3$   
 $y = -x + 4$   $y = -\frac{1}{1}x + 4$



12.  $y = 3x + 4$   
 $y = 2x + 3$

$$\begin{array}{r} 3x + 4 = 2x + 3 \\ -2x - 4 \quad -2x - 4 \\ \hline \end{array}$$

$x = -1$

$$\begin{aligned} y &= 3(-1) + 4 \\ y &= -3 + 4 \\ y &= 1 \end{aligned} \quad (-1, 1)$$

13.  $x = -2y + 4$   
 $2x + y = 14$

$(8, -2)$   $x = 8$

$$2(-2y + 4) + y = 14$$

$$\begin{aligned} -4y + 8 + y &= 14 \\ -3y + 8 &= 14 \\ -3y &= 6 \\ y &= -2 \end{aligned}$$

14.  $x + y = 10$   
 $x - y = 2$

$$\begin{array}{r} 2x = 12 \\ \frac{2}{2} \quad \frac{2}{2} \end{array} \quad (6, 4)$$

$x = 6$

$$\begin{array}{r} 6 + y = 10 \\ -6 \quad -6 \end{array}$$

$y = 4$

15.  $5x - 3y = 12$   
 $-2x + 3y = -3$

$$\begin{array}{r} (3, 1) \quad 3x = 9 \\ \frac{3}{3} \quad \frac{3}{3} \end{array}$$

$x = 3$

$$\begin{aligned} 5(3) - 3y &= 12 \\ 15 - 3y &= 12 \\ -15 \quad -15 \\ -3y &= -3 \\ \frac{-3}{-3} \quad \frac{-3}{-3} \\ y &= 1 \end{aligned}$$

16. You are given 2 job offers in sales. The first you get \$1200 a month and then 1% of your sales. The second you get \$1000 a month and 2% of your sales. For what amount of total sales will you make the same per month?

$$Y = .01x + 1200$$

$$Y = .02x + 1000$$

$$\begin{array}{r} .01x + 1200 = .02x + 1000 \\ -.01x \quad -1000 \quad -.01x \quad -1000 \\ \hline \end{array}$$

$$\frac{200}{.01} = \frac{.01x}{.01} \quad x = \$20,000$$

17. Ernesto spent a total of \$64 for a pair of jeans and a shirt. The jeans cost \$6 more than the shirt. What was cost of the jeans and the shirt?

$$j + s = 64$$

$$j = s + 6$$

$$s + 6 + s = 64$$

$$\begin{array}{r} 2s + 6 = 64 \\ -6 \quad -6 \\ \hline \end{array}$$

$$\frac{2s}{2} = \frac{58}{2}$$

$$\begin{array}{l} s = \$29 \\ j = \$35 \end{array}$$

**March 12, 2014**

